

SCORE Search Results Details for Application 09961086 and Search Result 20080917_142913_us-09-961-086a-1.ra1.

| | | | | |
|----------------------------|--------------------------------------|------------------------------|-----------------------|-----------------------------|
| Score Home | Retrieve Application | SCORE System | SCORE | Comments / |
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This page gives you Search Results detail for the Application 09961086 and Search Result 20080917_142913_us-09-961-086a-1.ra1.

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GenCore version 6.2.1

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OM protein - protein search, using sw model

Run on: September 18, 2008, 22:07:19 ; Search time 74 Seconds
(without alignments)
1809.433 Million cell updates/sec

Title: US-09-961-086A-1
Perfect score: 3352
Sequence: 1 MSSSNVEVFIPVSQGNTNGF.....MIVIFLTIAYLKLLFLKKYS 655

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1246758 seqs, 204424485 residues

Total number of hits satisfying chosen parameters: 1246758

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /ABSS/Data/CRF/ptodata/2/iaa/5_COMB.pep:*
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7: /ABSS/Data/CRF/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARIES

| Result | | % | | | | | |
|--------|-------|-------------|--------|----|---------------------|-------------------|--|
| No. | Score | Query Match | Length | DB | ID | Description | |
| 1 | 3352 | 100.0 | 655 | 2 | US-09-245-808-1 | Sequence 1, Appli | |
| 2 | 3331 | 99.4 | 655 | 2 | US-09-767-594-1 | Sequence 1, Appli | |
| 3 | 3331 | 99.4 | 655 | 2 | US-09-584-586-10 | Sequence 10, Appl | |
| 4 | 3331 | 99.4 | 655 | 3 | US-09-856-927-2 | Sequence 2, Appli | |
| 5 | 2757 | 82.2 | 657 | 2 | US-09-584-586-14 | Sequence 14, Appl | |
| 6 | 835.5 | 24.9 | 1049 | 2 | US-09-538-092-72 | Sequence 72, Appl | |
| 7 | 835.5 | 24.9 | 1049 | 3 | US-10-369-493-1520 | Sequence 1520, Ap | |
| 8 | 812 | 24.2 | 687 | 3 | US-09-619-049-264 | Sequence 264, App | |
| 9 | 795.5 | 23.7 | 676 | 3 | US-10-369-493-3799 | Sequence 3799, Ap | |
| 10 | 706.5 | 21.1 | 674 | 2 | US-09-538-092-1125 | Sequence 1125, Ap | |
| 11 | 702.5 | 21.0 | 663 | 3 | US-10-473-696-6 | Sequence 6, Appli | |
| 12 | 702.5 | 21.0 | 663 | 3 | US-11-567-079-6 | Sequence 6, Appli | |
| 13 | 693.5 | 20.7 | 652 | 2 | US-09-989-981A-2 | Sequence 2, Appli | |
| 14 | 693.5 | 20.7 | 652 | 3 | US-09-837-992-1 | Sequence 1, Appli | |
| 15 | 693.5 | 20.7 | 652 | 3 | US-11-128-026-1 | Sequence 1, Appli | |
| 16 | 682.5 | 20.4 | 651 | 2 | US-09-989-981A-6 | Sequence 6, Appli | |
| 17 | 682.5 | 20.4 | 651 | 3 | US-09-837-992-3 | Sequence 3, Appli | |
| 18 | 682.5 | 20.4 | 651 | 3 | US-11-128-026-3 | Sequence 3, Appli | |
| 19 | 677 | 20.2 | 559 | 3 | US-10-369-493-5740 | Sequence 5740, Ap | |
| 20 | 664 | 19.8 | 608 | 3 | US-10-369-493-5748 | Sequence 5748, Ap | |
| 21 | 658.5 | 19.6 | 1095 | 3 | US-10-369-493-2025 | Sequence 2025, Ap | |
| 22 | 657.5 | 19.6 | 672 | 2 | US-09-989-981A-4 | Sequence 4, Appli | |
| 23 | 640.5 | 19.1 | 673 | 2 | US-09-989-981A-8 | Sequence 8, Appli | |
| 24 | 639 | 19.1 | 658 | 3 | US-10-369-493-5347 | Sequence 5347, Ap | |
| 25 | 636.5 | 19.0 | 639 | 3 | US-10-369-493-6184 | Sequence 6184, Ap | |
| 26 | 636.5 | 19.0 | 695 | 3 | US-10-369-493-6199 | Sequence 6199, Ap | |
| 27 | 627.5 | 18.7 | 610 | 3 | US-10-369-493-5687 | Sequence 5687, Ap | |
| 28 | 623 | 18.6 | 147 | 2 | US-09-584-586-12 | Sequence 12, Appl | |
| 29 | 623 | 18.6 | 147 | 3 | US-09-856-927-4 | Sequence 4, Appli | |
| 30 | 612.5 | 18.3 | 1501 | 2 | US-09-487-558B-346 | Sequence 346, App | |
| 31 | 612.5 | 18.3 | 1501 | 3 | US-10-369-493-1606 | Sequence 1606, Ap | |
| 32 | 602 | 18.0 | 1511 | 2 | US-09-487-558B-250 | Sequence 250, App | |
| 33 | 602 | 18.0 | 1511 | 3 | US-10-369-493-22380 | Sequence 22380, A | |
| 34 | 594 | 17.7 | 1564 | 2 | US-09-487-558B-244 | Sequence 244, App | |
| 35 | 594 | 17.7 | 1564 | 3 | US-10-369-493-22424 | Sequence 22424, A | |
| 36 | 589 | 17.6 | 1549 | 3 | US-10-369-493-3919 | Sequence 3919, Ap | |
| 37 | 580.5 | 17.3 | 1529 | 3 | US-10-369-493-1692 | Sequence 1692, Ap | |
| 38 | 567 | 16.9 | 617 | 2 | US-09-614-912-138 | Sequence 138, App | |
| 39 | 561.5 | 16.8 | 1395 | 3 | US-10-369-493-4054 | Sequence 4054, Ap | |
| 40 | 552.5 | 16.5 | 611 | 3 | US-10-369-493-12397 | Sequence 12397, A | |
| 41 | 544 | 16.2 | 1511 | 3 | US-10-369-493-22496 | Sequence 22496, A | |
| 42 | 538 | 16.1 | 1448 | 3 | US-10-369-493-3997 | Sequence 3997, Ap | |
| 43 | 537.5 | 16.0 | 560 | 3 | US-10-369-493-12899 | Sequence 12899, A | |
| 44 | 537 | 16.0 | 1296 | 2 | US-09-614-912-140 | Sequence 140, App | |
| 45 | 533.5 | 15.9 | 1627 | 3 | US-10-369-493-3838 | Sequence 3838, Ap | |

ALIGNMENTS

RESULT 1

US-09-245-808-1

; Sequence 1, Application US/09245808

; Patent No. 6313277

; GENERAL INFORMATION:

; APPLICANT: Doyle, L. Austin

; APPLICANT: Abruzzo, Lynne V.

; APPLICANT: Ross, Douglas D.

; TITLE OF INVENTION: Breast Cancer Resistance Protein (BCRP) and DNA which

; TITLE OF INVENTION: encodes it

; FILE REFERENCE: Ross UMb conversion

; CURRENT APPLICATION NUMBER: US/09/245,808

; CURRENT FILING DATE: 1999-02-05

; EARLIER APPLICATION NUMBER: 60/073763

; EARLIER FILING DATE: 1998-02-05

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Human MCF-7/AdrVp cells

US-09-245-808-1

Query Match 100.0%; Score 3352; DB 2; Length 655;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 655; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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| Qy | 1 | MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE | 60 |
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| Qy | 61 | KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN | 120 |
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| Qy | 121 | SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT | 180 |
| | | | |
| Db | 121 | SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT | 180 |
| Qy | 181 | QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF | 240 |
| | | | |
| Db | 181 | QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF | 240 |
| Qy | 241 | SIHQPRYSIFKLFDSLTLASGRLMFHGPQEALGYFESAGYHCEAYNNPADFFLDIING | 300 |
| | | | |
| Db | 241 | SIHQPRYSIFKLFDSLTLASGRLMFHGPQEALGYFESAGYHCEAYNNPADFFLDIING | 300 |

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RESULT 2
US-09-767-594-1
; Sequence 1, Application US/09767594
; Patent No. 6521635
; GENERAL INFORMATION:
; APPLICANT: Bates, Susan
; APPLICANT: Robey, Robert
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Inhibition of MXR Transport by Acridine Derivatives
; FILE REFERENCE: 015280-402100US
; CURRENT APPLICATION NUMBER: US/09/767,594
; CURRENT FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 60/177,410
; PRIOR FILING DATE: 2000-01-20
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human mitoxanthrone resistance (MXR)/BRCP/ABCP
; OTHER INFORMATION: protein
US-09-767-594-1

Query Match 99.4%; Score 3331; DB 2; Length 655;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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| Db | 121 | SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIEELGLDKVADSKVGT | 180 |
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| Db | 301 | DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK | 360 |
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| Db | 361 | ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDS | 420 |
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; Patent No. 6933150
; GENERAL INFORMATION:
; APPLICANT: Sorrentino, Brian
; APPLICANT: Bunting, Kevin
; TITLE OF INVENTION: EXPANSION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH
; TITLE OF INVENTION: MDR-1 METHODS OF USE THEREOF
; FILE REFERENCE: 1340-1-021CIP
; CURRENT APPLICATION NUMBER: US/09/584,586
; CURRENT FILING DATE: 2000-05-31
; EARLIER APPLICATION NUMBER: US 60/086,988
; EARLIER FILING DATE: 1998-05-28
; EARLIER APPLICATION NUMBER: PCT/US99/11825
; EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-584-586-10

Query Match 99.4%; Score 3331; DB 2; Length 655;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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| | | : | |
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| Db | 301 | DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK | 360 |
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| | | | |
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| Db | 421 | TGIQNRAGVLFFLT | TTNQCFSSVSAVELFVVEKKLFIHEYISGY | YRVSSYFLGKLLSDLLP | 480 |
| Qy | 481 | MTMLPSIIFTCIVYF | MLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL | 540 | |
| | | | | | |
| Db | 481 | MRMLPSIIFTCIVYF | MLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL | 540 | |
| Qy | 541 | MTICFVFM | MIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNF | CPGLNATGN | 600 |
| | | | | | |
| Db | 541 | MTICFVFM | MIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNF | CPGLNATGN | 600 |
| Qy | 601 | NPCNYATCTGEEYLVKQ | GIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS | 655 | |
| | | | | | |
| Db | 601 | NPCNYATCTGEEYLVKQ | GIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS | 655 | |

RESULT 4
US-09-856-927-2
; Sequence 2, Application US/09856927
; Patent No. 7138493
; GENERAL INFORMATION:
; APPLICANT: Dean, Michael
; APPLICANT: Allikmets, Rando
; APPLICANT: Bates, Susan E.
; APPLICANT: Fojo, Antonio T.
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: A No. 7138493el ATP-Binding Cassette Protein Responsible for
; TITLE OF INVENTION: Cytotoxin Resistance
; FILE REFERENCE: 015280-382100US
; CURRENT APPLICATION NUMBER: US/09/856,927
; CURRENT FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: US 60/110,473
; PRIOR FILING DATE: 1998-11-30
; PRIOR APPLICATION NUMBER: WO PCT/US99/28107
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-856-927-2

Query Match 99.4%; Score 3331; DB 3; Length 655;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

| | | | | | | |
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| Qy | 1 | MSSSNVEVFIPVSQ | GNTNGFPATASNDLKAFT | EGAVLSFHNICYRVKLKSGFLPCR | KPVE | 60 |
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| | | | |
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| Db | 1 | MSSSNVEVFIPVSQGNTNGFPATVSNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE | 60 |
| Qy | 61 | KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN | 120 |
| Db | 61 | KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN | 120 |
| Qy | 121 | SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT | 180 |
| Db | 121 | SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIEELGLDKVADSKVGT | 180 |
| Qy | 181 | QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF | 240 |
| Db | 181 | QFIRGVSGGERKRTSIGMELITDPSILSLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF | 240 |
| Qy | 241 | SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING | 300 |
| Db | 241 | SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING | 300 |
| Qy | 301 | DSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK | 360 |
| Db | 301 | DSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK | 360 |
| Qy | 361 | ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS | 420 |
| Db | 361 | ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS | 420 |
| Qy | 421 | TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP | 480 |
| Db | 421 | TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP | 480 |
| Qy | 481 | MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL | 540 |
| Db | 481 | MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL | 540 |
| Qy | 541 | MTICFVFMIMFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN | 600 |
| Db | 541 | MTICFVFMIMFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN | 600 |
| Qy | 601 | NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS | 655 |
| Db | 601 | NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS | 655 |

RESULT 5
US-09-584-586-14
; Sequence 14, Application US/09584586
; Patent No. 6933150
; GENERAL INFORMATION:
; APPLICANT: Sorrentino, Brian
; APPLICANT: Bunting, Kevin
; TITLE OF INVENTION: EXPANSION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH

Query Match 82.2%; Score 2757; DB 2; Length 657;
Best Local Similarity 81.5%; Pred. No. 3.2e-278;
Matches 536; Conservative 51; Mismatches 67; Indels 4; Gaps 3;

http://es/ScoreAccessWeb/GetItem.action?AppId=099610...7_142913_us-09-961-086a-1.rai&ItemType=4&startByte=0 (9 of 25)9/22/2008 12:05:39 PM

Qy 480 PMTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATL 539
|| |||:|||||:||||| ||||:|||||:||||:||||||| |||||
Db 480 PMRFLPSVIFTCILYFMLGLKKTVDAFFIMMFTLIMVAYTASSMALAIATGQSVVSVATL 539

Qy 540 LMTICFVFMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATG 599
|||| |||||:||||||| || |||||:|||||:||||| |||| | |
Db 540 LMTIAFVFMMLFSGLLVNLRTIGPWLSWLQYFSIPRYGFTALQYNEFLGQEFCEPGFNVD 599

Qy 600 NNPC--NYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655
|: | :|| ||| |||: |||:|||||:|||||:|||||:|||||
Db 600 NSTCVNSYAICTGNEYLINQGIELSPWGLWKNHVALACMIIIFLTIAYLKLLFLKKYS 657

RESULT 6

US-09-538-092-72

; Sequence 72, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Giot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 72
; LENGTH: 1049
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number YCR011C

US-09-538-092-72

Query Match 24.9%; Score 835.5; DB 2; Length 1049;
Best Local Similarity 30.5%; Pred. No. 4.5e-77;
Matches 222; Conservative 134; Mismatches 257; Indels 115; Gaps 18;

Qy 1 MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTGAVLSFHNICYRVKLKSGFLPCRKPVE 60
: || : :| : | : | ||| || | : ||
Db 355 LGSSKSPIRLP-DEDAVNNFLQNEDDL-----ATLSFENITYSVPSINS-----DGVE 402

Qy 61 KEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPGLSGDVLINGAPRP-ANFK 118
: :|: |::||| : ||:| :| ||::|||:|| :: :|| : :|| :|
Db 403 ETVLNEISGIVKPGQILAIMGGSGAGKTLLDILAMKRKTGHVSGSIKVNGISMDRKSFS 462

| | | | |
|----|------|---|------|
| Qy | 119 | CNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKV | 178 |
| | | : : : : : : : : : | |
| Db | 463 | KIIGFVDQDDFLLPTLTVFETVLNSALLRLPKALSF EAKKARVYKVLEELRIIDIKDRII | 522 |
| Qy | 179 | GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQ-GRT | 237 |
| | | : : : : : : : : : | |
| Db | 523 | GNEFDRGISGGEKRRVSIACELVTSPLVLFLDEPTSGLDASNANNVIECLVRLSSDYNRT | 582 |
| Qy | 238 | IIFSIHQPRYSIFKLFDSLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDI | 297 |
| | | : : : : : : : : : : : | |
| Db | 583 | LVLSIHQPRSNIFYLFDKLVLLSKGEMVYSGNAKKVSEFLRNEGYICPDNYNIADYLIDI | 642 |
| Qy | 298 | -----INGDSTAV | 305 |
| | | : | |
| Db | 643 | TFEAGPQGKRRRIRNISDLEAGTDTNDIDNTIHTTFTSSDGTQREWAHLAAHRDEIRS | 702 |
| Qy | 306 | ALNREEDFKATE----IIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQ-LSGGEKKKK | 360 |
| | | : : : : : : : : : : : | |
| Db | 703 | LLRDEEDVEGTDGRRGATEIDLNTKLLHDK----YKDSVYYAELSQEIEEVLSEGDEESN | 758 |
| Qy | 361 | IT--VFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKN | 418 |
| | | : : : : : : : : : : : : | |
| Db | 759 | VLNGDLPTGQQSAGFLQQLSILNSRSFKNMYRNPKLLLGNYLLTILLSLFLGTLYYNVS | 818 |
| Qy | 419 | DSTGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVS SYFLGKLLSDL | 478 |
| | | : : : : : : : : : : : : | |
| Db | 819 | DISGFQNRMGLEFFILTYFGFVTFTGLSSFALERIIFIKERSNNYYSPLAYYISKIMSEV | 878 |
| Qy | 479 | LPMTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVAT | 538 |
| | | : : : : : : : : : : : : | |
| Db | 879 | VPLRVVPPILLSLIVYPMTGLNMKDNAFFKCIIGILILFNLGISLEILTIGIIFEDLNNSI | 938 |
| Qy | 539 | LLMTICFVFMIFSGLLV---NLTTIASWLSWLQYFSIPRYGFTALQHNEF----- | 586 |
| | | : : : : : : : : : : : : : | |
| Db | 939 | ILSVLVLLGSLLFSGLFINTKNITNVA--FKYLKNFSVFYYAYESLLINEVKTLMMLKERK | 996 |
| Qy | 587 | LGQNF-CPGLNATGNNPCNYATCTGEEYLVKQGI--DLSPWGLWKNHVALACMIVIFLTI | 643 |
| | | : : : : : : : : | |
| Db | 997 | YGLNIEVPG-----ATILSTFGFVVQNLVFDIK-----ILALFNVVFLIM | 1036 |
| Qy | 644 | AYLKLLFL | 651 |
| | | : : | |
| Db | 1037 | GYLALKWI | 1044 |

RESULT 7
US-10-369-493-1520
; Sequence 1520, Application US/10369493
; Patent No. 7314974
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1520
; LENGTH: 1049
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1520

Query Match 24.9%; Score 835.5; DB 3; Length 1049;
Best Local Similarity 30.5%; Pred. No. 4.5e-77;
Matches 222; Conservative 134; Mismatches 257; Indels 115; Gaps 18;

| | | | |
|----|-----|---|-----|
| Qy | 1 | MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTGAVLSFHNICYRVKLKSGFLPCRKPVE | 60 |
| | | : : : : : : | |
| Db | 355 | LGSSKSPIRLP-DEDAVNNFLQNEDDL-----ATLSFENITYSVPSINS-----DGVE | 402 |
| Qy | 61 | KEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRP-ANFK | 118 |
| | | : : : : : : : : : : : : : : : : : : | |
| Db | 403 | ETVLNEISGIVKPGQILAIMGGSGAGKTTLLDILAMKRKTGHVSGSIKVNGISMDRKSFS | 462 |
| Qy | 119 | CNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKV | 178 |
| | | : : : : : : : : : : : : : : : | |
| Db | 463 | KIIGFVDQDDFLLPTLTVFETVLNSALLRLPKALSFEAKKARVYKVLEELRIIDIKDRII | 522 |
| Qy | 179 | GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQ-GRT | 237 |
| | | : : : : : : : : : : | |
| Db | 523 | GNEFDRGISGGEKRRVSIACELVTSPLVLFLDEPTSGLDASNANNVIECLVRLSSDYNRT | 582 |
| Qy | 238 | IIFSIIHQPRYSIFKLFDLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDI | 297 |
| | | : : : : : : : : : : : | |
| Db | 583 | LVLSIIHQPRSNIFYLFDKLVLLSKGEMVYSGNAKKVSEFLRNEGYICPDNYNIADYLIDI | 642 |
| Qy | 298 | -----INGDSTAV | 305 |
| | | : | |
| Db | 643 | TFEAGPQGKRRRIRNISDLEAGTDTNDIDNTIHTTFTSSDGTQREWAHLAAHRDEIRS | 702 |
| Qy | 306 | ALNREEDFKATE----IIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQ-LSGGEKKKK | 360 |
| | | : : : : : : : : : : : : : | |
| Db | 703 | LLRDEEDVEGTDGRRGATEIDLNTKLLHDK----YKDSVYYAELSQEIEEVLSEGDEESN | 758 |
| Qy | 361 | IT--VFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKN | 418 |
| | | : : : : : : : : : : : : : : | |
| Db | 759 | VLNGDLPTGQQSAGFLQQLSILNSRSFKNMYRNPKLLLGNYLLTILLSLFLGTLYYNVS | 818 |

Qy 419 DSTGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDL 478
| :| ||| |: ||: | : : : | :|: :|| | : || :|:: |:|::
Db 819 DISGFQNRMGLEFFILTYFGFVTFTGLSSFALERIIFIKERSNNYYSPLAYYISKIMSEV 878

Qy 479 LPMTMLPSIIFTFCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVAT 538
:|: ::| |: : ||| | || | :||| : |:: | | : :
Db 879 VPLRVVPPILLSLIVYPMTGLNMKDNAFFKCIGILILFNLGISLEILTIGIIFEDLNNSI 938

Qy 539 LLMTICFVFMIFSGLLV---NLTTIASWLSWLQYFSIPRYGFTALQHNEF----- 586
:| : : :::||| : |::| :| :|: ||: | : :| ||
Db 939 ILSVLVLLGSLLFSGLFINTKNITNVA--FKYLKNFSVFYYAYESLLINEVKTLMMLKERK 996

Qy 587 LGQNF-CPGLNATGNNPCNYATCTGEEYLVKQGI--DLSPWGLWKNHVALACMIVIFLTI 643
| | || || | | : | : || | :|| :
Db 997 YGLNIEVPG-----ATILSTFGFVVQNLVFDIK-----ILALFNVVFLIM 1036

Qy 644 AYLKLLFL 651
|| | ::
Db 1037 GYLALKWI 1044

RESULT 8
US-09-619-049-264
; Sequence 264, Application US/09619049
; Patent No. 7135558
; GENERAL INFORMATION:
; APPLICANT: YANDELL, MARK
; TITLE OF INVENTION: ISOLATED DROSOPHILA PROTEINS ESSENTIAL
; TITLE OF INVENTION: FOR SURVIVAL, NUCLEIC ACID MOLECULES ENCODING ESSENTIAL
; TITLE OF INVENTION: DROSOPHILA PROTEINS, AND USES THEREOF AS INSECTICIDAL
; TITLE OF INVENTION: TARGETS
; FILE REFERENCE: CL000735
; CURRENT APPLICATION NUMBER: US/09/619,049
; CURRENT FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/171,590
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/171,627
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/175,763
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/175,685
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/186,663
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/187,241
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 1533
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 264
; LENGTH: 687
; TYPE: PRT

; ORGANISM: DROSOPHILA
US-09-619-049-264

Query Match 24.2%; Score 812; DB 3; Length 687;
Best Local Similarity 32.1%; Pred. No. 6.3e-75;
Matches 210; Conservative 134; Mismatches 251; Indels 60; Gaps 17;

| | | | |
|----|-----|--|-----|
| Qy | 5 | NVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVEKEIL | 64 |
| | | ::: : : : : | |
| Db | 74 | NMDIFGAVNQ-----PGSGWRQLVNRTRGLFCNERHI-----PAPR---KHLL | 113 |
| Qy | 65 | SNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGL----SGDVLINGAPRPA-NFK | 118 |
| | | : : : : : : : : : | |
| Db | 114 | KNVCGVAYPGELLAVMGSSGAGKTTLNALAFR-SPQGIQVSPSGMRLNLNGQPVDAKEMQ | 172 |
| Qy | 119 | CNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKV | 178 |
| | | : : : : : : : : : : | |
| Db | 173 | ARCAYVQDDLFIGSLTAREHLIFQAMVRMPRHLYRQRVARVDQVIQELSLSKCQHTII | 232 |
| Qy | 179 | GTQ-FIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGR | 237 |
| | | : : : : : : : : : : | |
| Db | 233 | GVPGRVKGLSGGERKRLAFASEALTDPPLLICDEPTSGLDSFTAHSVVQVLKKLSQKGKT | 292 |
| Qy | 238 | IIFSIIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDI | 297 |
| | | : : : : : : : : : : : | |
| Db | 293 | VILTIHQPSSELFELFDKILLMAEGRVAF LGTPSEAVDFFSYVGAQCPTNYPADFYVQV | 352 |
| Qy | 298 | INGDSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEK | 357 |
| | | : : : : : : : : : : | |
| Db | 353 | L-----AVVPGREIESR-----DRIAKICDNFAISKVAR-DMEQLLATKN | 391 |
| Qy | 358 | KKKITVFKEISYT--TSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFG | 415 |
| | | : : : : : : : : : : | |
| Db | 392 | LEKPLEQPENGYTYKATWFMQFRAVLWRSWLSVLKEPLLVKVRLIQTMTMVAAILIGLIFLG | 451 |
| Qy | 416 | LKNDSTGIQNRAGVLFLLTTNQCFSSVSA-VELFVVEKKLFIHEYISGYRVSSYFLGKL | 474 |
| | | : : : : : : : : : | |
| Db | 452 | QQLTQVGMNINGAIFLFLTNMTFQNVFATINVFTSELPVFMREARSRLYRCDTYFLGKT | 511 |
| Qy | 475 | LSDLLPMTMLPSIIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVV | 534 |
| | | : : : : : : : : : : : | |
| Db | 512 | IAE-LPLFLTVPPLVFTAIAYPMIGLRAGVLHFFNCLALVTLVANVSTSFGYLISCASSST | 570 |
| Qy | 535 | SVATLLMTICFVFMFMIFSGLLVNLTITASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPG | 594 |
| | | : : : : : : : : | |
| Db | 571 | SMALSVGPPVVIIPFLLFGGFFLNSGSVPVYLKWL SYLSWFRYANEGLLINQWADVE--PG | 628 |
| Qy | 595 | -LNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKL | 648 |
| | | : : : : : : : : : : : | |
| Db | 629 | EISCTSSN----TTCPSSGKVIETLNFSAADLPLDYVGLAILIVSFRVLAYLAL | 679 |

RESULT 9

US-10-369-493-3799
; Sequence 3799, Application US/10369493
; Patent No. 7314974
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3799
; LENGTH: 676
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-10-369-493-3799

Query Match 23.7%; Score 795.5; DB 3; Length 676;
Best Local Similarity 31.2%; Pred. No. 3.2e-73;
Matches 199; Conservative 107; Mismatches 218; Indels 113; Gaps 11;

| | | | |
|----|-----|--|-----|
| Qy | 61 | KEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAP-RPANFK | 118 |
| | | : : : : :: : : : | |
| Db | 1 | KEILSGIQGMAHPGEVTAIMGASGAGKTTFLDILARKNKRQVSGDFYINGEKVSDPEYK | 60 |
| Qy | 119 | CNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKV | 178 |
| | | : : :: : : : :: : : : | |
| Db | 61 | NAVGFVDQEDTMLPTLTVHETILNSALLRLPKDMTRAAKEQRVIEVEKQLGIYHIRDSLI | 120 |
| Qy | 179 | GTQ--FIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTA-NAVLKRLKRMKQG | 235 |
| | | : : :: : : : : | |
| Db | 121 | GSEEGKGRGISGGEKRRVGIACELVTSPSILFLDEPTSGLDAYNAYNVVECLVTLAKTYK | 180 |
| Qy | 236 | RTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFL | 295 |
| | | : : : : :: : : : : | |
| Db | 181 | RTVIFTIHQPRSNIVALFDRLILLAQGKTVYSGPLHQCEYFDQIGYTCPPGFNIADYLV | 240 |
| Qy | 296 | DI-----INGDSTAVALNREEDFKA-----TEIIEPS----- | 322 |
| | | : :: : : : :: | |
| Db | 241 | DLTMHAGSTSSYDDGTLSDGVSVGPSSTRAVKSIASVSGVSIGDDSLVESSSRPRNKR | 300 |
| Qy | 323 | -----KQDKPL----- | 328 |
| | | : :: | |
| Db | 301 | RDSVRRRQERELYTRRKQAVDTAASSDAGDEIGGYKLQKQPPVTPLRSTNDDLHDLPLA | 360 |

| | | | |
|----|-----|---|-----|
| Qy | 329 | -----IEKLAEIYVNSSFYKETKAELHQL-----SGGEKKKKITVFKEISYT----- | 370 |
| | | : : : : : : : : | |
| Db | 361 | ATGTDLDVLIESYIHSDIAASTHEEIHQAIAAAVNSNGQNSNGYVADGNI-YTGTMGKGY | 419 |
| Qy | 371 | --TSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDSTGIQNRAG | 428 |
| | | : : : : : : : : : : : : | |
| Db | 420 | ARVGLFRQFVILSQRTWKNLYRNPMLMLTHYAIAILLAVFAGYLFYGLTLDIAGFQNRLG | 479 |
| Qy | 429 | VLFFFLTINQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLPMTMLPSII | 488 |
| | | : : : : : : : : : : : : : : | |
| Db | 480 | LFFFVLALFGFSTLTSLGVFSQERLLFVRERANGYYSPTIFYAAKVLFDIVPLRIIPPIL | 539 |
| Qy | 489 | FTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLLMTICFVFM | 548 |
| | | : : : : : : : : : | |
| Db | 540 | LGAIIPMTGLVADYQRFFVFILVLVLFNLAAAAICLFIGILCKDGGVANLIGSLVMLFS | 599 |
| Qy | 549 | MIFSGLLVNLTITIASWLSWLQYFSIPRYGFTALQHNE | 585 |
| | | : : : : : : | |
| Db | 600 | LLFAGLLLNHNNAIPAAALWLQWLSIFHYGFEALIVNE | 636 |

RESULT 10

US-09-538-092-1125

; Sequence 1125, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Giot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 1125
; LENGTH: 674
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number P45844

US-09-538-092-1125

Query Match 21.1%; Score 706.5; DB 2; Length 674;
Best Local Similarity 28.4%; Pred. No. 6.5e-64;
Matches 194; Conservative 155; Mismatches 251; Indels 83; Gaps 23;

| | | | |
|----|-----|---|-----|
| Qy | 3 | SSNVEVFIPVSQGNTNGFPATASNDL---KAFT---EGAV-LSFHNICYRVKLKSGFLP | 54 |
| Db | 34 | SSNMEA---TETDLLNGHLKKVDNNLTEAQRFSSLPRAAVNIEFRDLSYSVPEGPWW-- | 88 |
| Qy | 55 | CRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPR | 113 |
| Db | 89 | -RKKGYKTLLKGISGKFNSGELVAIMGPSGAGKSTLMNILAGYRE-TGMKGAVLINGLPR | 146 |
| Qy | 114 | PAN-FKCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDK | 172 |
| Db | 147 | DLRCFRKVSCYIMQDDMLLPHLTVQEAMMVSAHLKLQE--KDEGRREMOVKEILTALGLLS | 204 |
| Qy | 173 | VADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLK RMS | 232 |
| Db | 205 | CANTRTGS-----LSGGQRKRLAIALELVNNPPVMFFDEPTSGLDSASCFQVVS LMKGLA | 259 |
| Qy | 233 | KQGRTIIFS IHQPRYSIFKLFDSLTL LASGRLMFHGPAQEALGYFESAGYHCEAYNNPAD | 292 |
| Db | 260 | QGGRSIICTIHQPSAKLFELFDQLYVLSQGQCVYRGKVCNLVPYLRDLGLNCPTYHNPAD | 319 |
| Qy | 293 | FFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKET--KAEL- | 349 |
| Db | 320 | FVMEVASG-----EYGDQNSRLVRVREGMCDSDHKRDLGGDAEVN | 360 |
| Qy | 350 | ----HQLSGGEKK-KKITVFKEISYTTSFCH-----QLRWVSKRSFKNLLGNPQASI | 396 |
| Db | 361 | PFLWHRPSEEVKQTKRLKGLRKDSSSMEGCHSFSASCLTQFCILFKRTFLSIMRDSVLTH | 420 |
| Qy | 397 | AQIIIVTVVLGLVIGAIYFGLKNDSTGIQNRAGVLFFLT TNQCFSSVS AVEL-FVVEKKLF | 455 |
| Db | 421 | LRITSHIGIGLLIGLLYLGIGNEAKKVLSNSGFLFFSMLFLMFAALMPTVLT FPLEMGVF | 480 |
| Qy | 456 | IHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIIFTCIVYFMLGLKPKADAFFVMMFTL-M | 514 |
| Db | 481 | LREHLNYWYSLKAYYLAKTMAD-VPFQIMFPVAYCSIVYWMTS-QPSDAVRFVLFAALGT | 538 |
| Qy | 515 | MVAYSASSMALAIAAGQSVVSVATLLMTICFVFM MIFSGLLVNLTTIASWLSWLQYFSIP | 574 |
| Db | 539 | MTSLVAQSLGLLIGAAS TSLQVATFVGPVTAIPVLLFSGFFVSFDTIPTYLQWMSYISYV | 598 |
| Qy | 575 | RYGFT-----ALQHNEFLGQNFCPGLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLW | 627 |
| Db | 599 | RYGFEGVILSIYGLDRED-----LHCDIDETCHFQK---SEAILRE-LDVENAKLY | 645 |
| Qy | 628 | KNHVALACMIVIFLTIAYLKLLF | 650 |
| Db | 646 | LDFIVLGIFFISLR LIA YFV LRY | 668 |

; Patent No. 7211563
; GENERAL INFORMATION:
; APPLICANT: DeveloGen AG for entwicklungsbiol. Forschung
; TITLE OF INVENTION: Protein disulfide isomerase and ABC transporter
; TITLE OF INVENTION: homologous proteins involved in the regulation of
; TITLE OF INVENTION: energy homeostasis
; FILE REFERENCE: 24941PWO_RI
; CURRENT APPLICATION NUMBER: US/10/473,696
; CURRENT FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: EP01108315.1
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 663
; TYPE: PRT
; ORGANISM: Human
US-10-473-696-6

Query Match 21.0%; Score 702.5; DB 3; Length 663;
Best Local Similarity 28.4%; Pred. No. 1.6e-63;
Matches 193; Conservative 153; Mismatches 246; Indels 87; Gaps 23;

Qy 3 SSNVEVFIPVSQGNTNGFPATASNDL---KAFT---EGAV-LSFHNICYRVKLKSGFLP 54
|||:| || |:| :|: || :|::|| :
Db 35 SSNMEA---TETDLLNGHLKKVDNNLTEAQRFSSLPRRAAVNIEFRDLSYSVPEGPWW-- 89

Qy 55 CRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPR 113
|| | :| |:| | |||:|:| |||:|::|| :: :|: | |||| ||
Db 90 -RKKGYKTLLKGISGKFNSGELVAIMGPSGAGKSTLMNILAGYRE-TGMKGAVLINGLPR 147

Qy 114 PAN-FKCN SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDK 172
|: | |:|:|:|:| |||:| : || |:| : : | : :: |||
Db 148 DLRCFRKVSCYIMQDDMLLPHLTVQEAMMVSAHLKLQE--KDEGRREMOVKEILTALGLLS 205

Qy 173 VADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMS 232
|::: |: :|||:| | :| :||: | :| :| |||:| |||:| |: |:| ::
Db 206 CANTRTGS-----LSGGQRKRLAIALELVNNPPVMFFDEPTSGLDSASCFQVVS LMKGLA 260

Qy 233 KQGRTIIFS IHQPRYSIFKLFD SLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPAD 292
: ||:| | :||| :|:| | :|: | : :: | : | :| |:| |||
Db 261 QGGRSIICTIHQPSAKLFELFDQLYVLSQGQCVRGKVCNLVPYLRDLGLNCPTYHNPAD 320

Qy 293 FFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLA EIYVNSSFYKETKAELHQL 352
| :: : | | | : | : : | : | : | : |
Db 321 FVMEVASG-----EYGDQNSRLVRAVREGMCD S----DHKRD L--- 354

Qy 353 SGGEKKKKITVF----KEISYTTSFCH-----QLRWVSKRSFKNLLGNPQASIAQII 400
||: : :: :| | : || | : ||:| :: : : :|
Db 355 -GGDAEVNPF LWHRPSEEDSSSMEGCHSF SASCLTQFCILFKRTFLSIMRDSVLTHLRIT 413

Qy 401 VTVVLGLVIGAIYFGLKNDSTGIQNRAGVLFFLT TNQCFSSVSAVEL-FVVEKKLFIHEY 459

Db 414 SHIGIGLLIGLLYLIGIGNEAKKVLNSGFLFFSMLFLMFAALMPTVLTTFPLEMGVFLREH 473

Qy 460 ISGYRVSYSYFLGKLLSDLLPMTMLPSIIFTTCIVYFMLGLKPKADAFFVMMFTL-MMVAY 518

Db 474 LNYWYSLKAYYLAKTMAD-VPFQIMFPVAYCSIVYWMTS-QPSDAVRFVLFAALGTMTSL 531

Qy 519 SASSMALAIAAGQSVVSVATLLMTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGF 578

Db 532 VAQSLGLLIGAASTSLQVATFVGPVTAIPVLLFSGFFVSFDTIPTYLQWMSYISYVRYGF 591

Qy 579 T-----ALQHNEFLGQNFPCPLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHV 631

Db 592 EGVILSIYGLDRED-----LHCDIDETCHFQK---SEAILRE-LDVENAKLYLDFI 638

Qy 632 ALACMIVIFLTIAYLKLLF 650

Db 639 VLGIFFI SLRLIAYFVLRY 657

RESULT 12

US-11-567-079-6

; Sequence 6, Application US/11567079

; Patent No. 7404952

; GENERAL INFORMATION:

; APPLICANT: DeveloGen AG fur entwicklungsbiol. Forschung

; TITLE OF INVENTION: Protein disulfide isomerase and ABC transporter

; TITLE OF INVENTION: homologous proteins involved in the regulation of

; TITLE OF INVENTION: energy homeostasis

; FILE REFERENCE: 24941PWO_RI

; CURRENT APPLICATION NUMBER: US/11/567,079

; CURRENT FILING DATE: 2006-12-05

; PRIOR APPLICATION NUMBER: EP01108315.1

; PRIOR FILING DATE: 2001-04-02

; NUMBER OF SEQ ID NOS: 21

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 663

; TYPE: PRT

; ORGANISM: Human

US-11-567-079-6

Query Match 21.0%; Score 702.5; DB 3; Length 663;

Best Local Similarity 28.4%; Pred. No. 1.6e-63;

Matches 193; Conservative 153; Mismatches 246; Indels 87; Gaps 23;

Qy 3 SSNVEVFIPVSQGNTNGFPATASNDL---KAFT---EGAV-LSFHNICYRVKLKSGFLP 54

Db 35 SSNMEA---TETDLLNGHLKKVDNNLTEAQRFSSLPRRAAVNIEFRDLSYSVPEGPWW-- 89

Qy 55 CRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDP SGLSGDVLINGAPR 113

| | | | |
|----|-----|--|-----|
| Db | 90 | -RKKGYKTLKLGISGKFNSGELVAIMGPSGAGKSTLMNILAGYRE-TGMKGAVLINGLPR | 147 |
| Qy | 114 | PAN-FKCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDK | 172 |
| | | : : : : : : : : : | |
| Db | 148 | DLRCFRKRVSCYIMQDDMLLPHTLVQEAMMVSAHLKLQE--KDEGRREMOVKEILTALGLLS | 205 |
| Qy | 173 | VADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMS | 232 |
| | | : : : : : : : : : : : : : : | |
| Db | 206 | CANTRTGS-----LSGGQRKRLAIALELVNNPPVMFFDEPTSGLDSASCFQVVSMLMKGLA | 260 |
| Qy | 233 | KQGRTIIFSIIHQPRYSIFKLFDSTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPAD | 292 |
| | | : : : : : : : : : : : | |
| Db | 261 | QGGRSIICTIHQPSAKLFELFDQLYVLSQGQCVYRGKVCNLVPYLRDLGLNCPTYHNPAD | 320 |
| Qy | 293 | FFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQL | 352 |
| | | : : : : : : : : : : : : : : | |
| Db | 321 | FVMEVASG-----EYGDQNSRLVRAVREGMCDSDHDKRDL--- | 354 |
| Qy | 353 | SGGEKKKKITVF----KEISYTTSFCH-----QLRWVSKRSFKNLLGNPQASIAQII | 400 |
| | | : : : : : : : : : : : : : : | |
| Db | 355 | -GGDAEVPNPFLLWHRPSEEDSSSMEGCHSFASCLTQFCILFKRTFLSIMRDSVLTHLRIT | 413 |
| Qy | 401 | VTVVGLLVIGAIYFGLKNDSTGIQNRAGVLFFLTNQCFSVSAVEL-FVVEKKLFIHEY | 459 |
| | | : : : : : : : : : : : : : | |
| Db | 414 | SHIGIGLLIGLLYLGIGNEAKVLSNSGFLFFSMLFLMFAALMPTVLTFPLEMGVFLREH | 473 |
| Qy | 460 | ISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTL-MMVAY | 518 |
| | | : : : : : : : : : : : : : : | |
| Db | 474 | LNYWYSLKAYYLAKTMAD-VPFQIMFPVAYCSIVYWMTS-QPSDAVRFVLFAALGTMTSL | 531 |
| Qy | 519 | SASSMALAIAAGQSVVSVATLLMTICFVFMFISGLLVNLTIIASWLSWLQYFSIPRYGF | 578 |
| | | : : : : : : : : : | |
| Db | 532 | VAQSLGLLIGAASTSLQVATFVGPVTAIPVLLFSGFFVSFDTIPTYLQWMSYISYVRYGF | 591 |
| Qy | 579 | T-----ALQHNEFLGQNFCPGLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHV | 631 |
| | | : : : : : : : : : : : : | |
| Db | 592 | EGVILSIYGLDRED-----LHCDIDETCHFQK---SEAILRE-LDVENAKLYLDFI | 638 |
| Qy | 632 | ALACMIVIFLTIAYLKLLF | 650 |
| | | : : | |
| Db | 639 | VLGIFFISLRLIAYFVLRY | 657 |

RESULT 13
US-09-989-981A-2
; Sequence 2, Application US/09989981A
; Patent No. 6821750
; GENERAL INFORMATION:
; APPLICANT: Hobbs, Helen H.
; APPLICANT: Shan, Bei
; APPLICANT: Barnes, Robert
; APPLICANT: Tian, Hui

Query Match 20.7%; Score 693.5; DB 2; Length 652;
Best Local Similarity 29.0%; Pred. No. 1.4e-62;
Matches 181; Conservative 142; Mismatches 246; Indels 55; Gaps 16;

http://es/ScoreAccessWeb/GetItem.action?AppId=099610...7_142913_us-09-961-086a-1.rai&ItemType=4&startByte=0 (21 of 25)9/22/2008 12:05:39 PM

| | | | |
|----|-----|---|-----|
| Qy | 420 | ST--GIQNRAGVLFFLTNNQCFSS-VSAVELFVVEKKLFIHEYISGYRVS | 476 |
| | | : : : : : :: : : : : : | |
| Db | 412 | TLKGAVQDRVGLLYQLVGATPYTGMLNAVNLFPMLRAVSDQESQDGLYHKWQMLLAYVL- | 470 |
| Qy | 477 | DLLPMTMLPSIIFTTCIVYFMLGLKPKADAFFVMMFTLM---MVAYSASSMALAIAAGQSV | 533 |
| | | : : : : : : : : : : : : : | |
| Db | 471 | HVLPFSVIATVIFSSVCYWTGLGYPEVARFGYFSAALLAPHLIGEFLLVLLGIVQNPNI | 530 |
| Qy | 534 | VSVATLLMTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNF-C | 592 |
| | | : : : : : : : : | |
| Db | 531 | VNSIVALLSIS--GLLIGSGFIRNIQEMPIPLKILGYFTFQKYCCEILVVNEFYGLNFTC | 588 |
| Qy | 593 | PGLNATGNNPCNYATCTGEEYLVK | 616 |
| | | : : : | |
| Db | 589 | GGNTSMLNHPMCAITQGVQFIEK | 612 |

RESULT 14

US-09-837-992-1

; Sequence 1, Application US/09837992

; Patent No. 7033810

; GENERAL INFORMATION:

; APPLICANT: Tian, Hui

; APPLICANT: Schultz, Joshua

; APPLICANT: Shan, Bei

; APPLICANT: Tularik Inc.

; TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): Compositions

; TITLE OF INVENTION: and Methods of Use

; FILE REFERENCE: 018781-006020US

; CURRENT APPLICATION NUMBER: US/09/837,992

; CURRENT FILING DATE: 2001-04-18

; PRIOR APPLICATION NUMBER: US 60/198,465

; PRIOR FILING DATE: 2000-04-18

; PRIOR APPLICATION NUMBER: US 60/204,234

; PRIOR FILING DATE: 2000-05-15

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 652

; TYPE: PRT

; ORGANISM: Mus musculus

; FEATURE:

; OTHER INFORMATION: mouse sitosterolemia susceptibility gene (SSG)

; OTHER INFORMATION: amino acid sequence

US-09-837-992-1

Query Match 20.7%; Score 693.5; DB 3; Length 652;

Best Local Similarity 29.0%; Pred. No. 1.4e-62;

Matches 181; Conservative 142; Mismatches 246; Indels 55; Gaps 16;

| | | | |
|----|----|---|----|
| Qy | 12 | VSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSG---FLPCRKPVEKEILSNI | 67 |
| | | : : : : : : : : : : | |

| | | | |
|----|-----|--|-----|
| Db | 25 | LEQGSVTGTEARHS-----LGVLHVSYSVSNRVGPWWNIKSCQQKWDRQILKDV | 73 |
| Qy | 68 | NGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSG-LSGDVLINGAP-RPANFKCNSGYV | 124 |
| | | : : : : : :: : : : : : : | |
| Db | 74 | SLYIESGQIMCILGSSSGSKTTLDAISGRLRRTGTLEGEVFNVCCELRRDQFQDCFSYV | 133 |
| Qy | 125 | VQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIR | 184 |
| | | : : : ::: : : ::: : : : | |
| Db | 134 | LQSDVFLSSLTVRETLRYTAMLALCRSSADF-YNKKVEAVMTELSLSHVADQMIGSYNFG | 192 |
| Qy | 185 | GVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMKQGRTIIFSIRQ | 244 |
| | | : : : : : : : : : : : : | |
| Db | 193 | GISSGERRRVSIAAQLLQDPKVMMLDEPTTGLDCMTANQIVLLLAELARRDRIVIVTIHQ | 252 |
| Qy | 245 | PRYSIFKLFDSTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIINGDSTA | 304 |
| | | : : : : : : : : : : : : | |
| Db | 253 | PRSELFQHFDKIAILTYGELVFCGTPEEMLGFFNNCGYPCPEHSNPFDFYMDLTSVDTQ- | 311 |
| Qy | 305 | VALNRE-EDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKKITV | 363 |
| | | : : ::: : : : : : : : : : : | |
| Db | 312 | -SREREIETYKRVQMLECAFKESDIYHKI-----LENIERARYLKT | 351 |
| Qy | 364 | FKEISYTT----SFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND | 419 |
| | | : : : : : : : : : : : : : : : | |
| Db | 352 | LPMVPFKTKDPPGMFGKLGVLRLRVTRNLMRNKQAVIMRLVQNLIMGLFLIFYLLRVQNN | 411 |
| Qy | 420 | ST--GIQNRAGVLFFLTNTQCFSS-VSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLS | 476 |
| | | : : : : : : : : : : : : : | |
| Db | 412 | TLKGAVQDRVGLLYQLVGATPYTGMLNAVNLFPMLRAVSDQESQDGLYHKWQMLLAYVL- | 470 |
| Qy | 477 | DLLPMTMLPSIIFTTCIVYFMLGLKPKADAFFVMMFTLM--MVAYSASSMALAIAAGQSV | 533 |
| | | : : : : : : : : : : : : : : : : : | |
| Db | 471 | HVLPFSVIATVIFSSVCYWTGLGYPEVARFGYFSAALLAPHLIGEFLTLVLLGIVQNPNI | 530 |
| Qy | 534 | VSVATLLMTICFVFMIFSGLLVNLTITIASWLSWLQYFSIPRYGFTALQHNEFLGQNF-C | 592 |
| | | : : : : : : : : : : | |
| Db | 531 | VNSIVALLSIS--GLLIGSGFIRNIQEMPIPLKILGYFTFQKYCCEILVVNEFYGLNFTC | 588 |
| Qy | 593 | PGLNATGNNPCNYATCTGEEYLVK | 616 |
| | | : : : | |
| Db | 589 | GGNTSMLNHPMCAITQGVQFIEK | 612 |

RESULT 15
US-11-128-026-1
; Sequence 1, Application US/11128026
; Patent No. 7229816
; GENERAL INFORMATION:
; APPLICANT: Tian, Hui
; APPLICANT: Schultz, Joshua
; APPLICANT: Shan, Bei
; APPLICANT: Tularik Inc.

; TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): Compositions
; TITLE OF INVENTION: and Methods of Use
; FILE REFERENCE: 018781-006020US
; CURRENT APPLICATION NUMBER: US/11/128,026
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/09/837,992
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: US 60/198,465
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 60/204,234
; PRIOR FILING DATE: 2000-05-15
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 652
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: mouse sitosterolemia susceptibility gene (SSG)
; OTHER INFORMATION: amino acid sequence
US-11-128-026-1

Query Match 20.7%; Score 693.5; DB 3; Length 652;
Best Local Similarity 29.0%; Pred. No. 1.4e-62;
Matches 181; Conservative 142; Mismatches 246; Indels 55; Gaps 16;

Qy 12 VSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSG----FLPCRKPVEKEILSNI 67
: ||: | | | | : : | | : | | : : : || : :
Db 25 LEQGSVTGTTEARHS-----LGVLHVSYSVSNRVGPWWNIKSCQQKWDRQILKDV 73

Qy 68 NGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSG-LSGDVLINGAP-RPANFKCNSGYV 124
: : : | : ||| : | ||: ||| : : | : | | : | : || | : | : ||
Db 74 SLYIESGQIMCILGSSGSGKTTLLDAISGRLRRTGTLEGEVVFVNGCELRRDQFQDCFSYV 133

Qy 125 VQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIR 184
: | || : : |||| | : : | | : : | : : | : || | ||| : :
Db 134 LQSDVFLSSLTVRETLRYTAMLALCRSSADF-YNKKVEAVMTELSLSHVADQMIGSYNFG 192

Qy 185 GVSggerKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIIHQ 244
| : | ||| : | || : | : || : : ||||| ||| : : ||| : : : | : | : |||
Db 193 GISSGERRRVSIAAQLLQDPKVMMLDEPTTGLDCMTANQIVLLLAELARRDRIVIVTIHQ 252

Qy 245 PRYSIFKLFDLTLASGRLMFHGP AQEALGYFESAGYHCEAYNNPADFFLDIINGDSTA 304
|| : | : || : : | | | : | | : | || : | | : || | || : | : | :
Db 253 PRSELFQHFQDKIAILTYGELVFCGTPEEMLGFFNNCGYPCPEHSNPFDFYMDLTSVDTQ- 311

Qy 305 VALNRE-EDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKKITV 363
: || | : | : : | : : : | : | : : :
Db 312 -SREREIETYKRVQMLECAFKESDIYHKI-----LENIERARYLKT 351

Qy 364 FKEISYTT----SFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND 419
: : | : | : : | : || | : : : : : || : : : :

| | | | |
|----|-----|--|-----|
| Db | 352 | LPMVPFKTKDPPGMFGKLGVLRLRVTRNLMRNKQAVIMRLVQNLIMGLFLIFYLLRVQNN | 411 |
| Qy | 420 | ST--GIQNRAGVLFFLTNTQCFSS-VSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLS | 476 |
| | | : : : : : :: : : : : : | |
| Db | 412 | TLKGAVQDRVGLLYQLVGATPYTGMLNAVNLFPMLRAVSDQESQDGLYHKWQMLLAYVL- | 470 |
| Qy | 477 | DLLPMTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLM---MVAYSASSMALAIAAGQSV | 533 |
| | | : :: : : : : : : : : :: | |
| Db | 471 | HVLPFSVIATVIFSSVCYWTGLYPEVARFGYFSAALLAPHLIGEFLLVLLGIVQNPNI | 530 |
| Qy | 534 | VSVATLLMTICFVFMIFSGLLVNLTITIASWLSWLQYFSIPRYGFTALQHNEFLGQNF-C | 592 |
| | | : : : :: : : : : : | |
| Db | 531 | VNSIVALLSIS--GLLIGSGFIRNIQEMPIPLKILGYFTFQKYCCEILVVNEFYGLNFTC | 588 |
| Qy | 593 | PGLNATGNNPCNYATCTGEEYLVK | 616 |
| | | : :: : | |
| Db | 589 | GGSNTSMLNHPMCAITQGVQFIEK | 612 |

Search completed: September 18, 2008, 22:10:39
 Job time : 76 secs

SCORE 3.0